BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Modified Estimate for Improvements to Roads and Drains in Janatha Colony, Hebbal Kempapura in Ward No. 7, Byatarayanapura.**

							Estimate Cost:		2382428.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **Page No. 138, Item No. 18.47, PWD SR 2016-17**	Cum							
			1	70.00	4.85	0.20	67.90		
			1	65.00	3.80	0.20	49.40		
			1	55.00	3.90	0.20	42.90		
			1	62.00	4.00	0.20	49.60		
			1	27.00	4.00	0.20	21.60	**TP**	
							231.40	915.00	**211731.00**
2	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	For UGD Cutting Portion								
			1	70.00	1.50	0.45	47.25		
			1	65.00	1.50	0.45	43.88		
			1	55.00	1.50	0.45	37.13		
			1	62.00	1.50	0.45	41.85		
			1	27.00	1.50	0.45	18.23		
	For Road Work								
			1	70.00	5.00	0.15	52.50		
			1	65.00	3.80	0.15	37.05		
			1	55.00	3.90	0.15	32.18		
			1	62.00	4.00	0.15	37.20		
			1	27.00	4.00	0.15	16.20	**TP**	
							363.45	190.00	**69056.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 **Page No. 148 / Item No. 19.60, PWD SR 2016-17**	cum							
			1	70.00	5.00	0.20	70.00		
			1	65.00	3.80	0.20	49.40		
			1	55.00	3.90	0.20	42.90		
			1	62.00	4.00	0.20	49.60		
			1	27.00	4.00	0.20	21.60	TP	
							233.50	300.00	**70050.00**
4	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
			1	70.00	1.50	0.25	26.25		
			1	65.00	1.50	0.25	24.38		
			1	55.00	1.50	0.25	20.63		
			1	62.00	1.50	0.25	23.25		
			1	27.00	0.15	0.25	1.01	TP	
							95.51	1700.00	**162371.00**
5	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
			1	70.00	5.00	0.15	52.50		
			1	65.00	3.80	0.15	37.05		
			1	55.00	3.90	0.15	32.18		
			1	62.00	4.00	0.15	37.20		
			1	27.00	4.00	0.15	16.20	TP	
							175.13	5000.00	**875625.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2016-17**	Sqm							
			2	70.00		0.30	126.00		
			2	65.00		0.30	117.00		
			2	55.00		0.30	99.00		
			2	62.00		0.30	111.60		
			2	27.00		0.30	48.60	TP	
							502.20	300.00	**150660.00**
7	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. **- M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) Page No. 177 / Item No. 22.6.2 PWD SR 2016-17**	Cum							
			1	70.00	5.00	0.12	42.00		
			1	65.00	3.80	0.12	29.64		
			1	55.00	3.90	0.12	25.74		
			1	62.00	4.00	0.12	29.76		
			1	27.00	4.00	0.12	12.96	TP	
							140.10	5250.00	**735525.00**
8	**Vaccum de-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. **Page No. 177 / Item No. 22.7, PWD SR 2016-17**	Sqm							
			1	70.00	5.00		350.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1	65.00	3.80		247.00		
			1	55.00	3.90		214.50		
			1	62.00	4.00		248.00		
			1	27.00	4.00		108.00	TP	
							1167.50	92.00	**107410.00**
	Sub Total								**2382428.00**
Rupees Twenty Three Lakh(s) Eighty Two Thousand Four Hundred Twenty Eight Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2016-17 POW 24.10% Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 07

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

'modified estimate is approved'

Technical Sanction Accorded For Rs 2382428.00
Head of A/C P1878
CER NO : 02/18-19 Dt: 19.05.18

TA CE (YNK)